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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,128	11/25/2003	Kenichi Takahashi	018775-885	4396
21839	7590	04/08/2008	EXAMINER	
BUCHANAN, INGERSOLL & ROONEY PC			ROBINSON, MYLES D	
POST OFFICE BOX 1404			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22313-1404			2625	
NOTIFICATION DATE		DELIVERY MODE		
04/08/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Summary	Application No. 10/720,128	Applicant(s) TAKAHASHI ET AL.
	Examiner Myles D. Robinson	Art Unit 2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 25 November 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1 - 9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1, 4 and 6 - 9 is/are allowed.
- 6) Claim(s) 2, 3 and 5 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 25 November 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No./Mail Date 11/25/2003
- 4) Interview Summary (PTO-413)
 Paper No./Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The examiner has considered the references listed in the Information Disclosure Statement (IDS) submitted on 11/25/2003 (see attached PTO-1449).

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: reference character S36 (Fig. 13). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required

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corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities: grammatical errors. It is suggested that "Usually, protocols for e-mail is allowed to pass the firewall" be revised to read "Usually, protocols for e-mail are is allowed to pass the firewall" (see page 2, line 6).

5. It is suggested that "The size limit is for example one megabytes" be revised to read "The size limit is for example one megabyte megabytes" (see page 2, line 20).

6. It is suggested that "a rooter 16" be revised to read "a router rooter 16" (see page 6, line 24).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. **Claims 2, 3 and 5** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2 and 3 recite the limitations "said divider" and "said sender." There is insufficient antecedent basis for these limitations in these claims.

9. **Claim 5** recites the limitation "said sender" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Allowable Subject Matter

10. **Claims 1, 4 and 6 – 9** are allowed.

Referring to **claims 1, 4, 6, 8 and 9**, the innovative limitation that distinguishes the Applicant's claim is dividing the bit streams of the plurality of pages into a plurality of files based on resolution and then arranging those files of all the pages in combinations based upon either their common resolution or layer level.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kondo et al. (U.S. Patent No. 6,864,997) disclose a picture encoding apparatus wherein the compression efficiency can be improved and deterioration of picture quality can be reduced when picture data is hierarchical-encoded (see *Abstract*).

Shozaki et al. (U.S. Pre-Grant Publication No. 2004-0218210) disclose an image processing apparatus which includes common inventors and assignee as the instant application (see *Abstract*).

Knowlton (U.S. Patent No. 4,261,018) discloses progressive image transmission (see *Abstract*).

Bannai et al. (U.S. Patent No. 5,412,486) disclose an image processing apparatus which receives first image data and then hierarchically reduces the size of the image represented by this first image data to generate second image data (see *Abstract and Figs. 2 – 4*).

Takahashi et al. (Japanese Patent No. 2004-289580) disclose an image processing apparatus which includes common inventors and assignee as the instant application (see *Abstract*).

Hara (U.S. Patent No. 5,781,175) discloses an image search apparatus for controlling the display of the plural sets of images stored in memory in reduced size on the display unit at a time wherein the control unit is able to display desired pages of the said plural sets of images in reduced sizes (see *Abstract and Figs. 5 – 8, 10 and 11*).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myles D. Robinson whose telephone number is (571)272-5944. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler L. Haskins can be reached on (571) 272-7406. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Myles D. Robinson/
Examiner, Art Unit 2625
3/28/08

/Twyler L. Haskins/
Supervisory Patent Examiner, Art Unit 2625